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AMERICAN MATHEMATICAL MONTHLY

THE NOVEMBER MEETING OF THE IOWA SECTION.

The ninth regular meeting of the Iowa Section was held in the Chamber of Commerce library, Des Moines, on November 4, 1921, the Section, as is usual at the fall meeting, uniting with the Iowa Association of Mathematics Teachers. The vice-chairman, Professor C. W. EMMONS, presided.

One hundred and one persons were present, including the following thirteen members of the Association:

O. W. Albert, Julia T. Colpitts, I. S. Condit, C. W. Emmons, R. B. McClenon, F. M. McGaw, J. V. McKelvey, E. A. Pattengill, J. F. Reilly, H. L. Rietz, Maria M. Roberts, B. F. Simonson, E. R. Smith.

The portion of the program given by the Iowa Section consisted of a report on "The work of the National Committee on Mathematical Requirements" by Professor J. V. MCKELVEY, Iowa State College. Speaking as chairman of the Section's committee, of which Professors Emmons and Albert were the other members, Professor McKelvey discussed the suggestions and recommendations of the National Committee. His paper covered the general scope of the National Committee's report, lists of subjects to be included and those to be excluded, with some special mention of the functional concept in elementary mathematics, and of college entrance examinations.

Professors Rietz and Condit participated in the discussion.

J. F. REILLY, *Secretary.*

THE NOVEMBER MEETING OF THE MISSOURI SECTION.

The fifth regular meeting of the Missouri Section was held in St. Louis, on Friday and Saturday afternoons, November 25–26. The Friday session, held at Soldan High School, was presided over by Professor Louis Ingold, chairman of the Section. The Saturday session, held at Washington University, was a joint meeting with the Southwestern Section of the American Mathematical Society, and was presided over by Professor E. R. Hedrick, chairman of the Southwestern Section, and by Professor Ingold.

There were thirty-three in attendance, including the following twenty-eight members of the Association:

C. Ammerman, C. H. Ashton, A. Davis, O. Dunkel, W. W. Hart, E. R. Hedrick, Louise H. Huff, A. H. Huntington, L. Ingold, S. Lefschetz, W. A. Luby, E. B. Lytle, J. V. McKelvey, U. G. Mitchell, A. R. Nauer, P. R. Rider, P. Robertson, W. H. Roever, I. Roman, W. J. Ryan, A. J. Schwartz, H. E. Slaught,

E. R. Smith, E. Stephens, E. B. Stouffer, Eula A. Weeks, W. D. A. Westfall, Jessica M. Young.

On Friday evening at the American Hotel Annex a dinner was held jointly with the Southwestern Section of the American Mathematical Society and the Central Association of Science and Mathematics Teachers. Father W. J. Ryan, vice-president of St. Louis University and a member of the Association, acted as toastmaster at the dinner, and the following addresses were given: "The age of power" by Mr. A. S. Langsdorf, formerly dean of the Schools of Engineering and Architecture of Washington University; "Zoölogy in the secondary schools" by Dr. Caswell Grave, professor of zoölogy, Washington University.

At noon on Saturday the members of the Missouri Section of the Association and the Southwestern Section of the Society were the guests of Washington University at a luncheon which was served in the Tower Dormitory dining hall.

The following officers were elected for the ensuing year: Chairman, E. R. HEDRICK, University of Missouri; Vice-Chairman, W. A. LUBY, Kansas City Junior College; Secretary-Treasurer, P. R. RIDER, Washington University.

The 1922 meeting will be held in Kansas City in November, at the time of the meeting of the Missouri State Teachers' Association.

The following papers were read:

(1) "Mathematics clubs in junior high schools" by Mr. A. H. HUNTINGTON, Cleveland High School, St. Louis;

(2) "Some suggestions in regard to mathematics" by Father W. J. RYAN, vice-president of St. Louis University;

(3) "Correct methods of making drawings of space objects" by Professor W. H. ROEVER, Washington University;

(4) "The relation of mathematics to engineering" by Professor E. R. HEDRICK, University of Missouri;

(5) "Graphical methods of representing a function of a function and of solving allied problems" by Professors HEDRICK and ROEVER;

(6) "An elementary exposition of the theorem of Bernoulli with applications to statistics" by Professor H. L. RIETZ, University of Iowa;

(7) "Final report of the National Committee on Mathematical Requirements" by Dr. EULA A. WEEKS, Cleveland High School, St. Louis.

In addition to these papers, an informal talk was given by Professor H. E. SLAUGHT, of the University of Chicago, who told the Section of the recent grant to the Association by Mrs. Paul Carus of a sum of money to be used for the publication of expository monographs on mathematical subjects. In the absence of the author, the paper by Professor Rietz was read by Professor C. H. ASHTON of the University of Kansas. Several of the papers led to interesting discussions. Abstracts of the papers follow below, the numbers corresponding to the numbers in the list of titles:

1. Mr. Huntington discussed mathematics clubs for pupils of junior high school age, maintaining that they offer opportunities not yet realized for enlisting the interest and effort of boys and girls in the study of mathematics.

2. Father Ryan offered some suggestions in regard to the present day status of mathematics in the high schools, which led up to a discussion of measures that should be taken to promote intensive work in mathematics.

3. In this paper Professor Roever first stated the criteria which must be satisfied by a drawing (on a plane or curved surface) in order that it should be an adequate and good looking representation of a space object. He then showed, as a consequence of these criteria, that a drawing must be a central or parallel (orthographic or oblique) projection of the space object to be represented, and gave the conditions under which one or two projections are required in order adequately to represent the object. Finally, rules of procedure were developed and exemplified.

4. Professor Hedrick called the attention of the Section to the organization of a joint committee under the auspices of the Society for the Promotion of Engineering Education and the Mathematical Association of America. He pointed out the close relationship between mathematics and engineering, and mentioned briefly both the history of previous investigations of mathematical teaching in schools of engineering and the plans of the present committee.

5. Professors Hedrick and Roever called attention to a recent paper (R. von Huhn, "A new graphic analytic method," *Science*, October 7, 1921) and pointed out that it is a very special case of the general method given by Professor Roever in this MONTHLY, *1916*, 330–333. They also showed how the method could be used in more general problems, including the elimination of one variable from two equations in three variables. [Published in *Science*, April 14, 1922.]

6. In this paper Professor Rietz showed by concrete illustrations the character of the statistical problems to which the theorem of Bernoulli is applicable, and presented an elementary demonstration of the theorem for the purpose of giving a clear view of a method of treatment of a fundamental problem in the fluctuations of results derived from random samples. [Published in *Mathematics Teacher*, December, 1921.]

7. The paper of Dr. Weeks, who is a member of the National Committee on Mathematical Requirements, gave a brief outline of the contents of the final report of the committee, with statements about the publication and distribution of this report.

PAUL R. RIDER, *Secretary-Treasurer.*

THE NOVEMBER MEETING OF THE TEXAS SECTION.

The first regular meeting of the Texas Section was held at the Bryan High School, Dallas, Texas, on November 25–26, in conjunction with a meeting of the Mathematics Section of the Texas State Teachers' Association. Three meetings were held. G. C. EVANS presided at the session of Friday morning, H. J. ETTLINGER, president of the Mathematics Section of the Texas State Teachers' Association, at the session of Friday afternoon, and J. O. MAHONEY at the closing session of Saturday morning.